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Application Number Filing Date INFORMATION DISCLOSURE **First Named Inventor** Alvin Janski STATEMENT BY APPLICANT Art Unit (Not for submission under 37 CFR 1.99) **Examiner Name** KEDI 8828 W1 Attorney Docket Number

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Application Number			-
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First Named Inventor	Alvin	Janski	
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Attorney Docket Number		KEDI 8828 W1	

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Measurement of exhaled carbon monoxide in children with sickle cell disease

K. Sylvester, R. Patey, J. Hall, G. Rafferty, M. Dick, S. L. Thein, A. Greenough (London, United Kingdom)

Background:Carboxyhaemoglobin (COHb) is elevated in conditions of haem catabolism. End tidal exhaled carbon monoxide (ETCO) is related to COHb and can be measured nasally in all age groups. We hypothesised that in children with sickle cell disease (SCD) ETCO would be elevated and reduced by blood transfusion. Methods: ETCO was measured in non smoking subjects: 10 SCD children in steady state (mean age 10.5yrs, range 3.5 to 13.4yrs), 10 healthy ethnic-matched controls (mean age 10.3yrs, range 3.4 to 15.6yrs) and 11 SCD children (mean age 10.7yrs, range 5.2 to 17.6yrs) undergoing a regular blood transfusion to reduce SCD complications. ETCO, corrected for background CO (ETCOc), was measured by the CO-Stat (R) End Tidal Breath Analyzer (Natus Medical Inc., San Carlos, CA). In the transfusion group, ETCOc was measured before, midway and at the end of the transfusion. Results: ETCOc levels were higher (p<0.0001) in the SCD children in steady state (mean 5.6, 95% CI 4.3 to 6.9ppm) than the controls (mean 1.5, 95% CI 1.1 to 1.9ppm). In the transfusion group, ETCOc was lower during (mean 5.8, 95% CI 4.5 to 7.1ppm, p = 0.048) and after (mean 5.3, 95% CI 3.8 to 6.7ppm, p = 0.01) the transfusion compared to before transfusion (mean 6.3ppm, CI 4.7 to 7.8). Conclusion: These preliminary results suggest ETCO measurement could be a useful method of monitoring SCD children at risk of haemolytic crises and their response to treatment.

Eur Respir J 2002; 20: Suppl. 38, 139s

This abstract was presented at the ERS Annual Congress Stockholm 2002 on Sunday 15.09.2002 in session 110: "Paediatric respiratory physiology - clinical aspects".